ABSTRACT

Apparatus and methods for transferring audio between a headset and electronic equipment over an optical link. The apparatus includes an electro-optical interface for electrically connecting to the electronic equipment, an optical link, and an electro-optical headset. Audio from the electronic equipment modulates a light source in the electro-optical interface. A modulated light signal is transmitted through the optical link to the electro-optical headset where it is demodulated and reproduced as the original audio in the ear of a user wearing the headset. Also, another audio from the user's mouth produces another modulated light signal in the electro-optical headset. The other modulated light signal is transmitted through the optical link to the electro-optical interface where it is demodulated to provide the other audio to the electronic equipment. The non-electrical optical link may improve audible communications between the electronic equipment and the headset in radio-frequency noisy environments. Also, the non-electrical optical link may prevent coupling with an aerial of the electronic equipment and improve radio propagation.